

# Community Health Needs Assessment

King's Daughters Hospital, Yazoo City, MS

September 2013

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STROUDWATER ASSOCIATES

## Today's Objective:

- Review and discuss excerpts of the 2013 Community Health Assessment Report
- Identify priorities for health improvement and potential community resources based on the excerpts

1. Define Medical Service Area
  - Designate an area that clearly defines where the majority of patients using the hospital services live.
    - County or ZIP Code boundaries
    - More data available at county level
    - Use patient origin percentage (75-85%) or CMS market share by ZIP Code threshold (10%).
2. Demographic and Economic Data
3. Health Indicator/Health Outcome Data
  - To determine the health needs of and areas of focus for the community.

# IRS Requirements

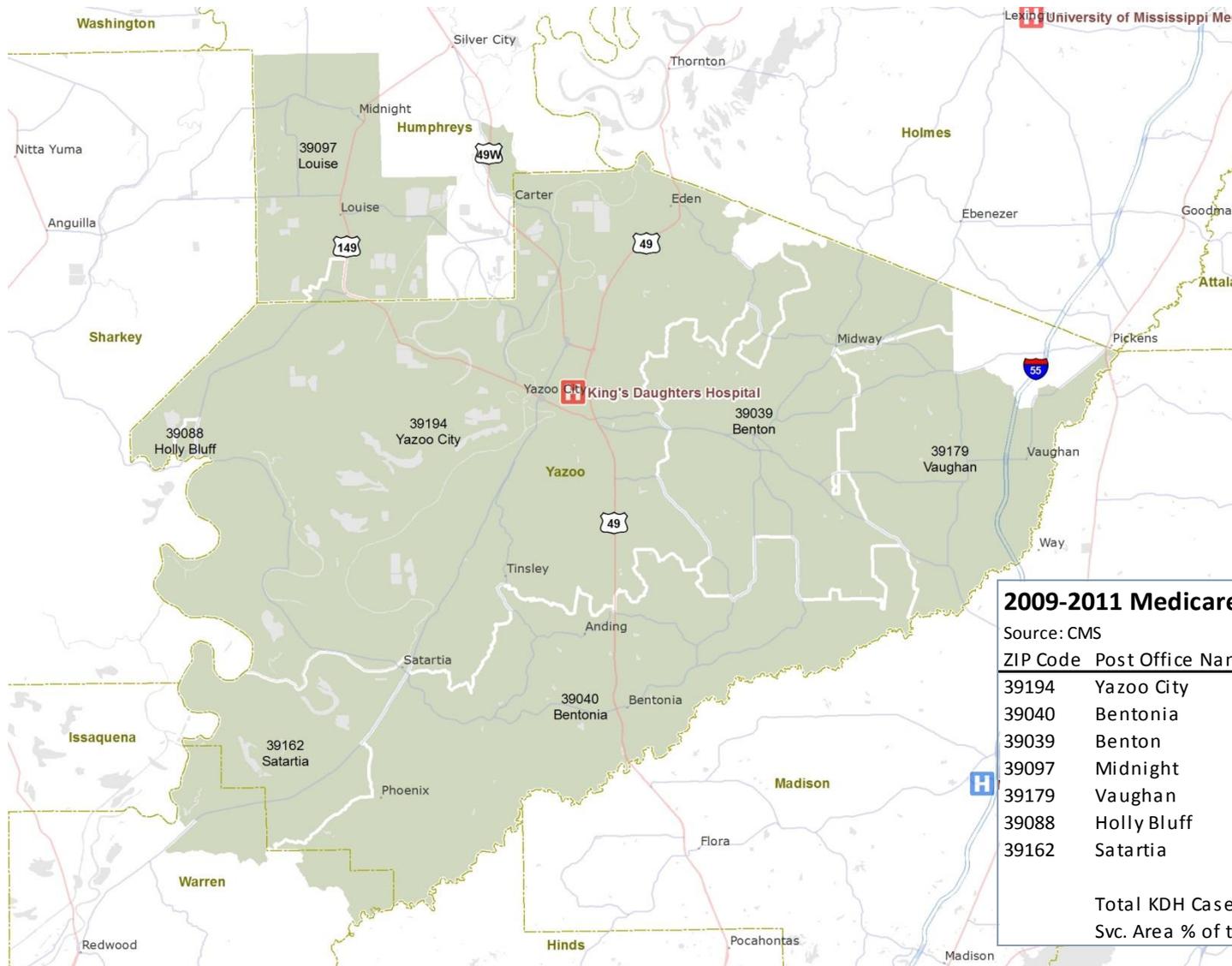
**Community Health Needs Assessment** (Lines 1 through 8c are optional for tax years beginning on or before March 23, 2012)

**1** During the tax year or either of the two immediately preceding tax years, did the hospital facility conduct a community health needs assessment (CHNA)? If “No,” skip to line 9. . . . .

If “Yes,” indicate what the CHNA report describes (check all that apply):

- a**  A definition of the community served by the hospital facility
- b**  Demographics of the community
- c**  Existing health care facilities and resources within the community that are available to respond to the health needs of the community
- d**  How data was obtained
- e**  The health needs of the community
- f**  Primary and chronic disease needs and other health issues of uninsured persons, low-income persons, and minority groups
- g**  The process for identifying and prioritizing community health needs and services to meet the community health needs
- h**  The process for consulting with persons representing the community's interests
- i**  Information gaps that limit the hospital facility's ability to assess the community's health needs
- j**  Other (describe in Part VI)

# KDH Medical Service Area



The medical service area is represented by ZIP Codes where the hospital has at least 10% Medicare market share over a three-year period.

These ZIP Codes represent 83% of all the hospital's Medicare cases.

**2009-2011 Medicare Cases**  
Source: CMS

ZIP Code	Post Office Name	KDH	Svc. Area Total	KDH Mkt. Share
39194	Yazoo City	1,479	3,784	39.1%
39040	Bentonia	189	740	25.5%
39039	Benton	178	530	33.6%
39097	Midnight	50	299	16.7%
39179	Vaughan	36	225	16.0%
39088	Holly Bluff	11	62	17.7%
39162	Satartia	10	104	9.6%
Total KDH Cases		2,348		
Svc. Area % of total		<b>83%</b>		

## Notes about these data

The following service area information is presented at the ZIP Code or ZCTA level, where available. If ZIP Code-level data was not available, the county level was used.

However, the service area ZIP Codes are nearly identical to the county boundary, except for 39097 (Louise), which is in neighboring Humphreys County.

# Service Area Demographics

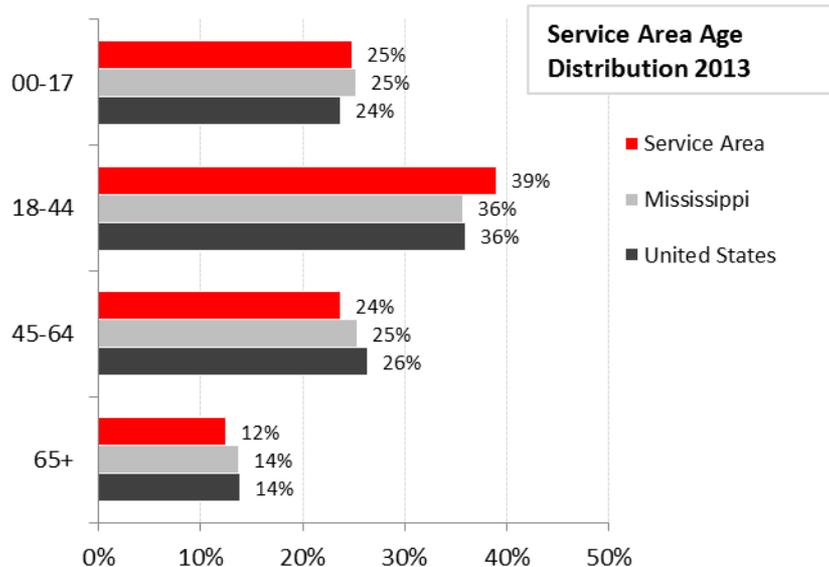
## 2013 Population Estimates

Service Area Name	00-17	18-44	45-64	65+	Total	%of PSA	%of Total
39194 YAZOO CITY	5,163	8,654	4,549	2,258	20,624	72%	72%
39040 BENTONIA	787	962	875	510	3,134	11%	11%
39039 BENTON	509	685	627	360	2,181	8%	8%
39097 LOUISE	243	312	271	152	978	3%	3%
39179 VAUGHAN	320	385	352	206	1,263	4%	4%
39162 SATARTIA	72	91	94	61	318	1%	1%
<b>Total Service Area</b>	<b>7,094</b>	<b>11,089</b>	<b>6,768</b>	<b>3,547</b>	<b>28,498</b>		
Total Service Area	25%	39%	24%	12%	100%		
Mississippi	25%	36%	25%	14%	100%		
United States	24%	36%	26%	14%	100%		

Source: Truven Health Analytics

The Service Area has a higher percentage of person aged 18-44 than the state and nation.

Conversely, the percentage of the over 65 age cohort is lower.



# Service Area Demographics

## 2013-2018 Change

Service Area	Name	2013 Estimate	2018 Projection	2013-2018 % Change	2013-2018 Ab. Change
39194	YAZOO CITY	20,624	20,314	-2%	-310
39040	BENTONIA	3,134	2,988	-5%	-146
39039	BENTON	2,181	2,177	0%	-4
39097	LOUISE	978	899	-8%	-79
39179	VAUGHAN	1,263	1,246	-1%	-17
39162	SATARTIA	318	302	-5%	-16
<b>Total Service Area</b>		<b>28,498</b>	<b>27,926</b>	<b>-2%</b>	<b>-572</b>
	Mississippi	3	3	1%	
	United States	315	325	3%	

State and US in Millions

Source: Truven Health Analytics

The Service Area is projected to lose population by 2018, by 2%, or nearly 600 people.

Any population growth will exclusively be in the 65+ cohort.

## 2013-2018 Change

Total Service Area	2013 Estimate	2018 Projection	Absolute Change	Percent Change	Share of Growth
00-17	7,094	6,876	-218	-3%	0%
18-44	11,089	11,086	-3	0%	0%
45-64	6,768	6,219	-549	-8%	0%
65+	3,547	3,745	198	6%	100%
<b>Total</b>	<b>28,498</b>	<b>27,926</b>	<b>-572</b>	<b>-2%</b>	<b>100%</b>

Source: Truven Health Analytics

# Service Area Demographics

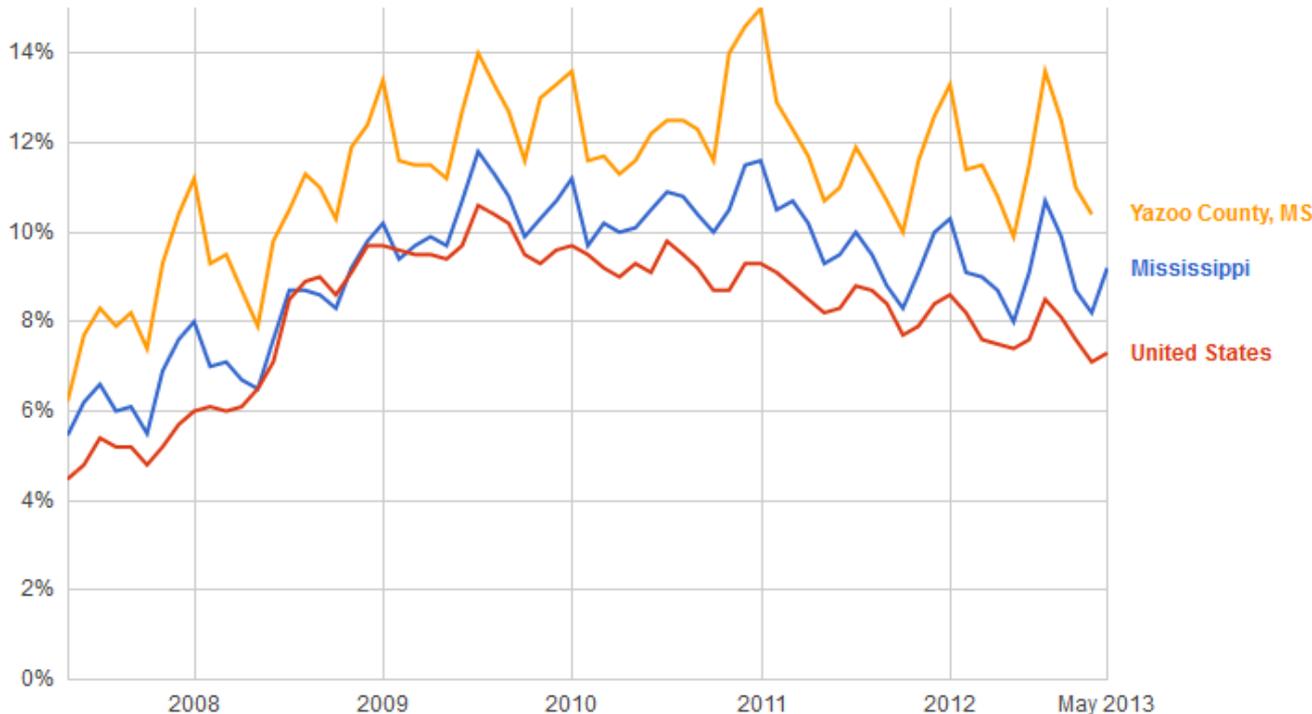
## 2013 Median Household Income

Service Area	Name	Median Household Income	% of State	% of US
39194	YAZOO CITY	\$24,123	74%	49%
39040	BENTONIA	\$34,012	105%	69%
39039	BENTON	\$29,078	90%	59%
39097	LOUISE	\$28,545	88%	58%
<b>Total Weighted Service Area</b>		<b>\$25,936</b>	<b>80%</b>	<b>53%</b>
Mississippi		\$32,380	100%	66%
United States		\$49,233		

Source: Truven Health Analytics

Median household income in the Service Area is only 80% of the state median.

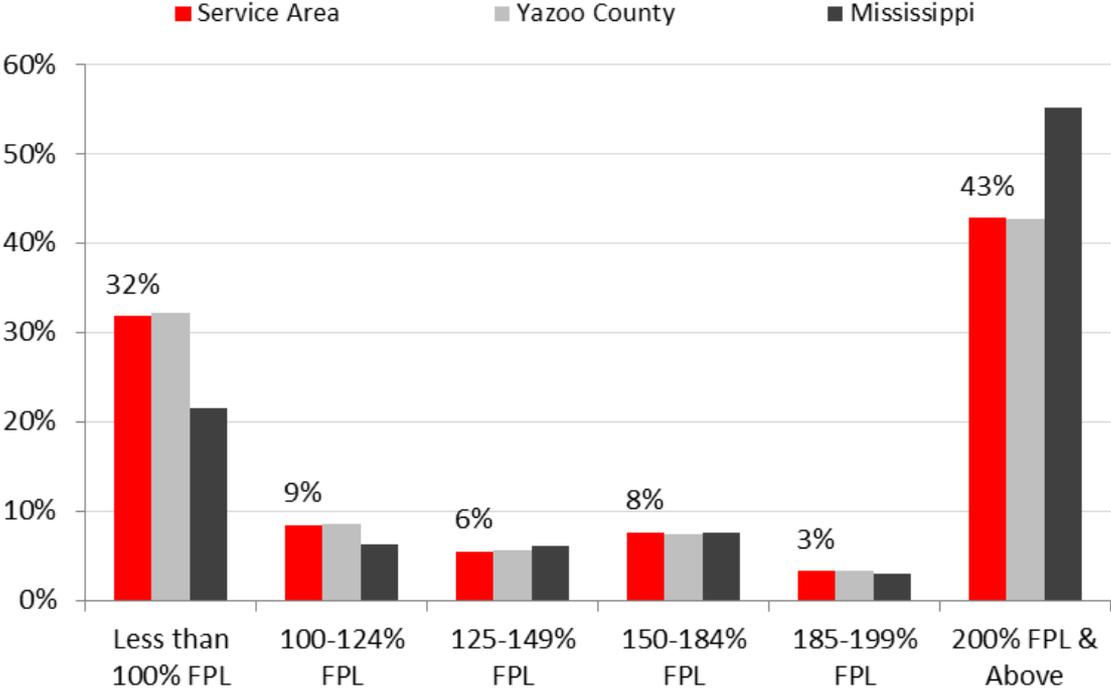
Yazoo County's unemployment rate is higher than the state and national rate, but is following the same trends as those benchmarks.



Source: Bureau of Labor Statistics

# Service Area Demographics

### Percent of Population by Federal Poverty Level (FPL)



The Service Area has a much higher percentage of extreme poverty (less than 100% of the FPL) compared to the state of Mississippi.

# Service Area Demographics

The majority of residents in the Service Area are Black, non-Hispanic.

Black residents make up higher portions of the age groups under 45.

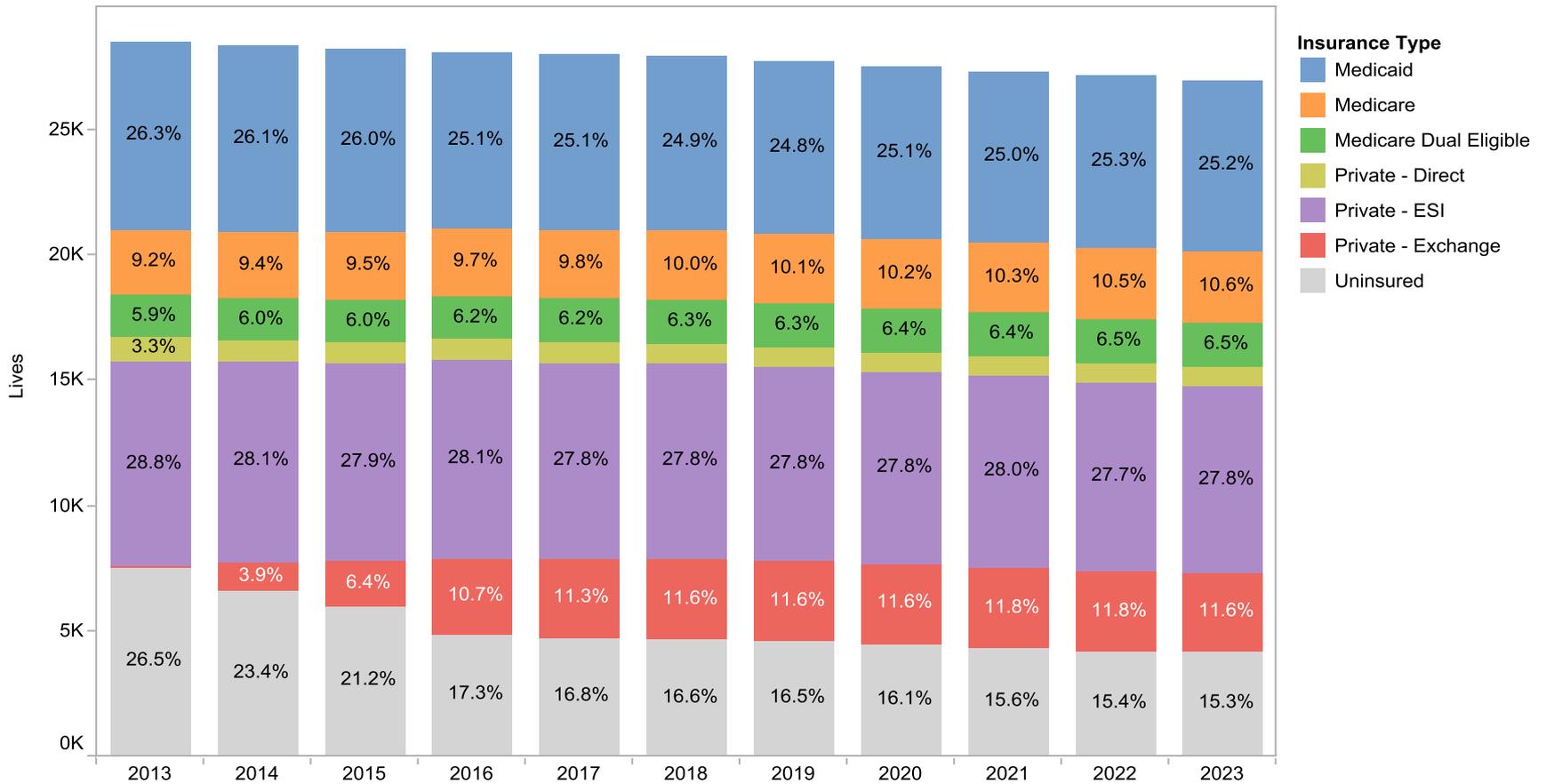
Race Ethnicity	2013 Population	% of Total
BLACK NON-HISPANIC	16,439	57.7%
WHITE NON-HISPANIC	10,324	36.2%
HISPANIC	1,311	4.6%
MULTIRACIAL NON-HISPANIC	225	0.8%
ASIAN NON-HISPANIC	127	0.4%
NATIVE AMERICAN NON-HISPANIC	61	0.2%
OTHER NON-HISPANIC	6	0.0%
PACIFIC ISLANDR NON-HISPANIC	5	0.0%
	28,498	100.0%

Source: Truven Health Analytics

Age	Race	Female	Male	Total
00-17	BLACK	2,324 18%	2,510 16%	4,834 17%
	WHITE	980 8%	1,128 7%	2,108 7%
	MULTIRACIAL	39 0%	54 0%	93 0%
	ASIAN	15 0%	17 0%	32 0%
	OTHER	9 0%	6 0%	15 0%
	NATIVE AMERICAN	4 0%	8 0%	12 0%
	PACIFIC ISLANDR	0 0%	0 0%	0 0%
	<b>Total</b>	<b>3,371 26%</b>	<b>3,723 24%</b>	<b>7,094 25%</b>
18-44	BLACK	2,818 22%	4,060 26%	6,878 24%
	WHITE	1,384 11%	2,288 15%	3,672 13%
	MULTIRACIAL	20 0%	251 2%	271 1%
	OTHER	12 0%	150 1%	162 1%
	ASIAN	14 0%	43 0%	57 0%
	NATIVE AMERICAN	4 0%	44 0%	48 0%
	PACIFIC ISLANDR	1 0%	0 0%	1 0%
	<b>Total</b>	<b>4,253 33%</b>	<b>6,836 44%</b>	<b>11,089 39%</b>
45-64	BLACK	1,709 13%	1,727 11%	3,436 12%
	WHITE	1,492 11%	1,694 11%	3,186 11%
	MULTIRACIAL	21 0%	46 0%	67 0%
	ASIAN	11 0%	19 0%	30 0%
	OTHER	2 0%	22 0%	24 0%
	NATIVE AMERICAN	6 0%	15 0%	21 0%
	PACIFIC ISLANDR	2 0%	2 0%	4 0%
	<b>Total</b>	<b>3,243 25%</b>	<b>3,525 23%</b>	<b>6,768 24%</b>
65+	WHITE	1,211 9%	885 6%	2,096 7%
	BLACK	888 7%	527 3%	1,415 5%
	MULTIRACIAL	9 0%	13 0%	22 0%
	ASIAN	7 0%	2 0%	9 0%
	NATIVE AMERICAN	1 0%	2 0%	3 0%
	OTHER	0 0%	2 0%	2 0%
	PACIFIC ISLANDR	0 0%	0 0%	0 0%
	<b>Total</b>	<b>2,116 16%</b>	<b>1,431 9%</b>	<b>3,547 12%</b>
<b>Total</b>	<b>12,983 100%</b>	<b>15,515 100%</b>	<b>28,498 100%</b>	

Source: Truven Health Analytics

# Service Area Demographics



Current estimates for the Service Area show nearly equal percentages of lives with Medicaid, Employer Sponsored Insurance, or Uninsured. The impact of health reform on the insurance coverage is expected to decrease the number of uninsured to 15% in the next decade, primarily through state health exchange enrollment.

# Service Area Health Care Resources

Report Area	Total Population	Total Primary Care Providers	Primary Care Provider Rate (Per 100,000 Pop.)
Yazoo County, Mississippi	28,065	4	14.25
Mississippi	2,967,297	1,712	57.60
United States	312,471,327	264,897	84.70

Note: This indicator is compared with the state average. Data breakout by demographic groups are not available.

Data Source: [US Department of Health & Human Services, Health Resources and Services Administration, Area Resource File: 2011.](#)

Source geography: County.

## Physician Supply in Yazoo County

Specialty	Count
Family Practice	4
Emergency Medicine	3
Non-Primary Care	3
Internal Medicine	2
General Practice	1
Pediatrics	1
OB/Gyn	1
Unspecified	1

Source: AMA Directory of Physicians in the United States 2012

## Hospital Beds

Hospital	Beds
King's Daughters Hospital	25

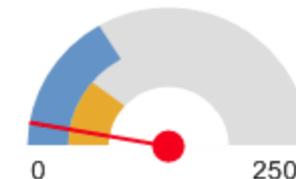
Source: AHD.com

Physician supply in the Service Area is determined by the DHHS data and by querying the AMA Directory of Physicians for the county.

The primary care provider rate in Yazoo County is much lower than the state and national benchmarks. As such, the county has been designated a Health Professional Shortage Area (HPSA) for primary, mental health, and dental care.

KDH is the sole source of inpatient beds in the county.

**Primary Care Provider Rate (Per 100,000 Pop.)**



- Yazoo County, Mississippi (14.25)
- Mississippi (57.60)
- United States (84.70)

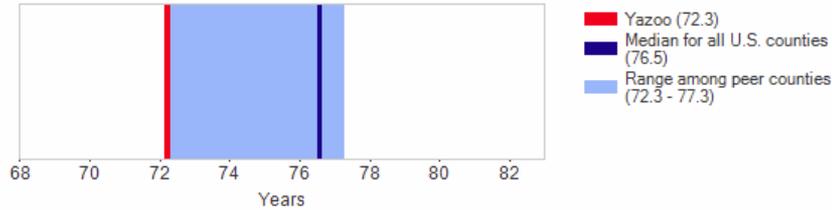
**Percent Adults Without Any Regular Doctor**



- Yazoo County, Mississippi (24.13%)
- Mississippi (21.23%)
- United States (19.34%)

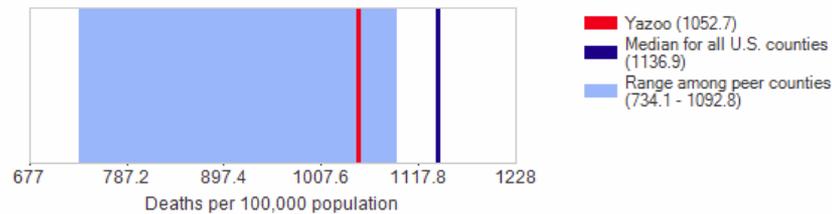
# Health Needs of the Community

## AVERAGE LIFE EXPECTANCY<sup>1</sup>



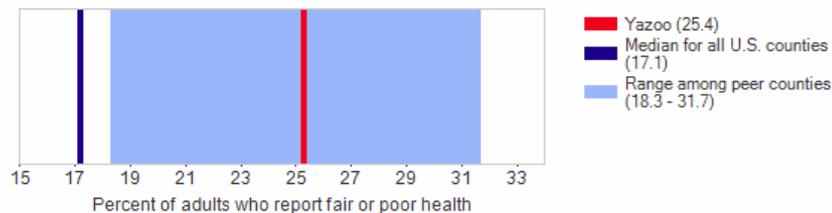
Yazoo County is in the lower range of peer counties in terms of life expectancy.

## ALL CAUSES OF DEATH<sup>2</sup>

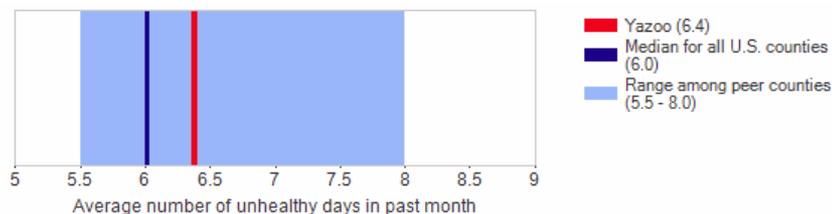


The county is in the higher range of deaths per 100,000 population, the middle range of peers for “percentage of adults who report fair or poor health,” and slightly lower than average for “number of unhealthy days” in a month.

## SELF-RATED HEALTH STATUS<sup>3</sup>



## AVERAGE NUMBER OF UNHEALTHY DAYS IN PAST MONTH<sup>3</sup>



# Health Needs of the Community

County Percent	Status	Peer County Range	Birth Measures	U.S. Percent 2005	Healthy People 2010 Target
12.3		7.0 - 12.4	Low Birth Wt. (<2500 g)	8.2	5.0
2.3		1.0 - 2.5	Very Low Birth Wt. (<1500 g)	1.5	0.9
20.7		12.2 - 19.3	Premature Births (<37 weeks)	12.7	7.6
8.6		5.1 - 8.8	Births to Women under 18	3.4	No objective
1.5		0.8 - 1.9	Births to Women age 40-54	2.7	No objective
68.5		36.8 - 56.1	Births to Unmarried Women	36.9	No objective
17.6		16.3 - 33.4	No Care in First Trimester <sup>2</sup>	16.1	10.0

CHSI uses a magnifying glass icon to indicate the more attention should be paid to that particular health measure in the county.

Of the 21 indicators, Yazoo County receives magnifier icon for all but three.

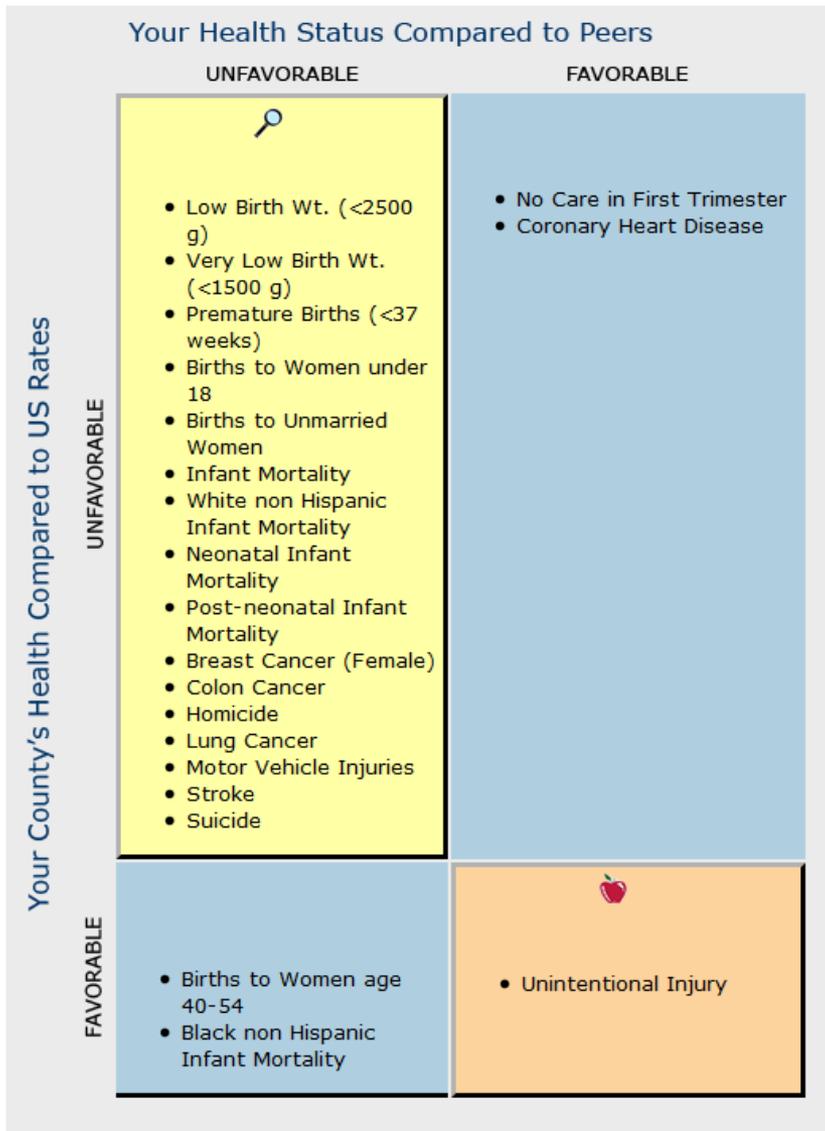
County Rate	Status	Peer County Range	Infant Mortality <sup>3</sup>	U.S. Rate 2005	Healthy People 2010 Target
11.8		5.4 - 13.2	Infant Mortality	6.9	4.5
9.3		3.1 - 9.9	White non Hispanic Infant Mortality	5.8	4.5
13.1		0.0 - 20.8	Black non Hispanic Infant Mortality	13.6	4.5
nrf		0.0 - 11.5	Hispanic Infant Mortality	5.6	4.5
5.6		2.7 - 8.8	Neonatal Infant Mortality	4.5	2.9
6.1		1.8 - 5.2	Post-neonatal Infant Mortality	2.3	1.2

County Rate	Status	Peer County Range	Death Measures <sup>4</sup>	U.S. Rate 2005	Healthy People 2010 Target
35.1		15.4 - 33.6	Breast Cancer (Female)	24.1	21.3
20.9		11.2 - 24.1	Colon Cancer	17.5	13.7
178.3		126.4 - 253.1	Coronary Heart Disease	154.0	162.0
15.3		4.2 - 14.6	Homicide	6.1	2.8
70.5		31.9 - 73.1	Lung Cancer	52.6	43.3
34.9		12.8 - 49.5	Motor Vehicle Injuries	14.6	8.0
71.5		39.1 - 85.6	Stroke	47.0	50.0
14.9		6.0 - 20.1	Suicide	10.9	4.8
22.5		16.6 - 37.6	Unintentional Injury	39.1	17.1

Indicates a status favorable to peer county median value

Indicates that a closer look and perhaps reduction to the percent or rate may be needed. Blank indicates no comparison.

# Health Needs of the Community



CHSI includes the comparison table indicating how Yazoo County compares to peer county and U.S. rates.

 Indicates a status favorable to peer county median value

 Indicates that a closer look and perhaps reduction to the percent or rate may be needed. Blank indicates no comparison.

# Health Needs of the Community

Yazoo County performed well against peer counties among infectious disease cases.

<u>Status</u>		<u>Reported Cases</u>	<u>Expected Cases</u>
	<b>AIDS</b>	<b>rna</b>	<b>rna</b>
	<b>Tuberculosis</b>	<b>rna</b>	<b>rna</b>
	<b>Haemophilus influenzae B</b>	<b>0</b>	<b>0</b>
	<b>Hepatitis A</b>	<b>1</b>	<b>4</b>
	<b>Hepatitis B</b>	<b>8</b>	<b>4</b>
	<b>Measles</b>	<b>0</b>	<b>0</b>
	<b>Pertussis</b>	<b>0</b>	<b>3</b>
	<b>Congenital Rubella Syndrome</b>	<b>0</b>	<b>0</b>
	<b>Syphilis</b>	<b>1</b>	<b>1</b>

<u>Status</u>	<u>Cases</u>	<u>Reported</u>	<u>Expected</u>
	<b>E.coli</b>	<b>0</b>	<b>0</b>
	<b>Salmonella</b>	<b>20</b>	<b>28</b>
	<b>Shigella</b>	<b>10</b>	<b>14</b>

 Indicates a status favorable to peer county median value

 Indicates that a closer look and perhaps reduction to the percent or rate may be needed. Blank indicates no comparison.

# Health Needs of the Community

## Health Outcomes

rank: **24/81**

### Mortality

rank: **24/81**

#### Premature death

Margin of Error	8,602-11,045	
Yazoo County	9,824	
Mississippi	10,214	
US Benchmark	5,317	

### Morbidity

**40/81**

#### Poor or fair health

Margin of Error	19-30%	
Yazoo County	24%	
Mississippi	22%	
US Benchmark	10%	

#### Poor physical health days

Margin of Error	2.6-5.0	
Yazoo County	3.8	
Mississippi	4.1	
US Benchmark	2.6	

#### Poor mental health days

Margin of Error	2.5-4.4	
Yazoo County	3.4	
Mississippi	4.1	
US Benchmark	2.3	

#### Low birthweight

Margin of Error	12.2-14.6%	
Yazoo County	13.4%	
Mississippi	12.0%	
US Benchmark	6.0%	

Source: [www.countyhealthrankings.org](http://www.countyhealthrankings.org)

The County Health Rankings program is a collaborative effort by the University of Wisconsin Population Health Institute and the Robert Wood Johnson Foundation that ranks nearly every county in the nation by various health and socioeconomic factors.

In these reports, Yazoo County is ranked among the 81 counties in Mississippi, as well as compared to the state and national benchmarks, where applicable.

# Health Needs of the Community

## Health Factors

rank: **64/81**

### Health Behaviors

rank: **59/81**

#### Adult smoking

Margin of Error	19-34%
Yazoo County	26%
Mississippi	24%
US Benchmark	13%

#### Adult obesity

Margin of Error	30-42%
Yazoo County	36%
Mississippi	36%
US Benchmark	25%

#### Physical inactivity

Margin of Error	30-41%
Yazoo County	35%
Mississippi	33%
US Benchmark	21%

#### Excessive drinking

Margin of Error	7-19%
Yazoo County	12%
Mississippi	11%
US Benchmark	7%

#### Motor vehicle crash death rate

Margin of Error	20-34
Yazoo County	26
Mississippi	28
US Benchmark	10

#### Sexually transmitted infections

Margin of Error	
Yazoo County	1,197
Mississippi	722
US Benchmark	92

#### Teen birth rate

Margin of Error	85-99
Yazoo County	92
Mississippi	62
US Benchmark	21

### Clinical Care

rank: **33/81**

#### Uninsured

Margin of Error	18-23%
Yazoo County	20%
Mississippi	21%
US Benchmark	11%

#### Primary care physicians

Margin of Error	
Yazoo County	7,005:1
Mississippi	1,920:1
US Benchmark	1,067:1

#### Dentists

Margin of Error	
Yazoo County	6,408:1
Mississippi	2,569:1
US Benchmark	1,516:1

#### Preventable hospital stays

Margin of Error	75-94
Yazoo County	85
Mississippi	91
US Benchmark	47

#### Diabetic screening

Margin of Error	73-90%
Yazoo County	81%
Mississippi	82%
US Benchmark	90%

#### Mammography screening

Margin of Error	45-62%
Yazoo County	54%
Mississippi	59%
US Benchmark	73%

### Social & Economic Factors

rank: **67/81**

#### High school graduation

Margin of Error	
Yazoo County	61%
Mississippi	74%
US Benchmark	

#### Some college

Margin of Error	36-46%
Yazoo County	41%
Mississippi	56%
US Benchmark	70%

#### Unemployment

Margin of Error	
Yazoo County	12.90%
Mississippi	10.70%
US Benchmark	5.00%

#### Children in poverty

Margin of Error	30-52%
Yazoo County	41%
Mississippi	32%
US Benchmark	14%

#### Inadequate social support

Margin of Error	26-41%
Yazoo County	33%
Mississippi	25%
US Benchmark	14%

#### Children in single-parent households

Margin of Error	53-67%
Yazoo County	60%
Mississippi	44%
US Benchmark	20%

#### Violent crime rate

Margin of Error	
Yazoo County	
Mississippi	280
US Benchmark	66

### Physical Environment

rank: **72/81**

#### Daily fine particulate matter

Margin of Error	12.4-12.6
Yazoo County	12.5
Mississippi	12.4
US Benchmark	8.8

#### Drinking water safety

Margin of Error	
Yazoo County	1%
Mississippi	8%
US Benchmark	0%

#### Access to recreational facilities

Margin of Error	
Yazoo County	0
Mississippi	7
US Benchmark	16

#### Limited access to healthy foods

Margin of Error	
Yazoo County	22%
Mississippi	10%
US Benchmark	1%

#### Fast food restaurants

Margin of Error	
Yazoo County	58%
Mississippi	54%
US Benchmark	27%

# Health Needs of the Community

The state of Mississippi last published health indicator reports for each county in 2007. Below are the leading causes of death comparison from the Yazoo County report.

## Age-Adjusted Rates by Causes of Death

	Heart Disease	Cancer	Stroke	Diabetes	Accidents	Flu/ Pneumonia	Blood Poisoning
Yazoo County	229.2	156.8	72.2	55.8	24.8	17.8	10.7
Non-white	234.0	197.9	117.3	86.3			
White	219.1	121.5	40.1	30.1			
Mississippi	266.0	197.9	51.1	21.3	60.9	18.1	18.1

Source: Office of Vital Records, Mississippi State Department of Health, 2007

## Age-Adjusted Rates by Accidental Death

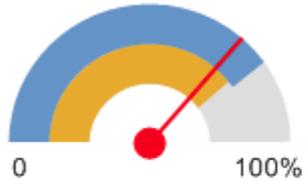
	Motor Vehicle Accidents	Firearms	Drowning & Submersion	Poisoning	Falls	Smoke, Fire, Flames	All Other
Yazoo County	18.5	3.4	2.9	0.0	0.0	0.0	3.4
Mississippi	30.9	2.0	5.7	8.7	6.2	2.8	2.0

Source: Office of Vital Records, Mississippi State Department of Health, 2007

# Health Needs of the Community - Summary

## Focus: Women & Children

Percent Population with Regular Pap Test



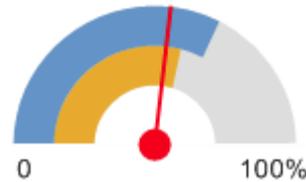
- Yazoo County, Mississippi (72.80%)
- Mississippi (79%)
- United States (80.42%)

Percent Adults Without Any Regular Doctor



- Yazoo County, Mississippi (24.13%)
- Mississippi (21.23%)
- United States (19.34%)

Percent Female Medicare Enrollees with Mammogram in Past 2 Years



- Yazoo County, Mississippi (53.65%)
- Mississippi (58.68%)
- United States (65.37%)

Breast Cancer Annual Incidence Rate (Per 100,000 Pop.)



- Yazoo County, Mississippi (144.90)
- Mississippi (113.80)
- United States (119.70)

Percent Population Under Age 18 in Poverty



- Yazoo County, Mississippi (46.54%)
- Mississippi (30.95%)
- United States (19.96%)

Percent Low Weight Births



- Yazoo County, Mississippi (13.30%)
- Mississippi (11.90%)
- United States (8.15%)

Infant Mortality Rate (Per 1,000 Births)



- Yazoo County, Mississippi (9.24)
- HP 2020 Target (6)
- United States (6.71)

Teen Birth Rate (Per 1,000 Births)

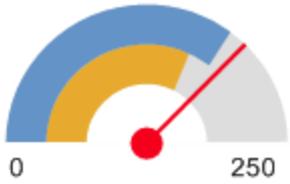


- Yazoo County, Mississippi (93.80)
- Mississippi (65.10)
- United States (41.20)

# Health Needs of the Community - Summary

## Focus: Disease Prevalence

Age-Adjusted Death Rate, Cancer Mortality (Per 100,000 Pop.)



■ Yazoo County, Mississippi (186.55)  
 ■ HP 2020 Target (160.60)  
 ■ United States (176.66)

Percent Population with Diagnosed Diabetes



■ Yazoo County, Mississippi (12.90%)  
 ■ Mississippi (12.31%)  
 ■ United States (8.95%)

Colo-Rectal Cancer Annual Incidence Rate (Per 100,000 Pop.)



■ Yazoo County, Mississippi (64.40)  
 ■ HP 2020 Target (38.60)  
 ■ United States (43.90)

Age-Adjusted Death Rate, Heart Disease Mortality (Per 100,000 Pop.)



■ Yazoo County, Mississippi (138.09)  
 ■ HP 2020 Target (100.80)  
 ■ United States (134.65)

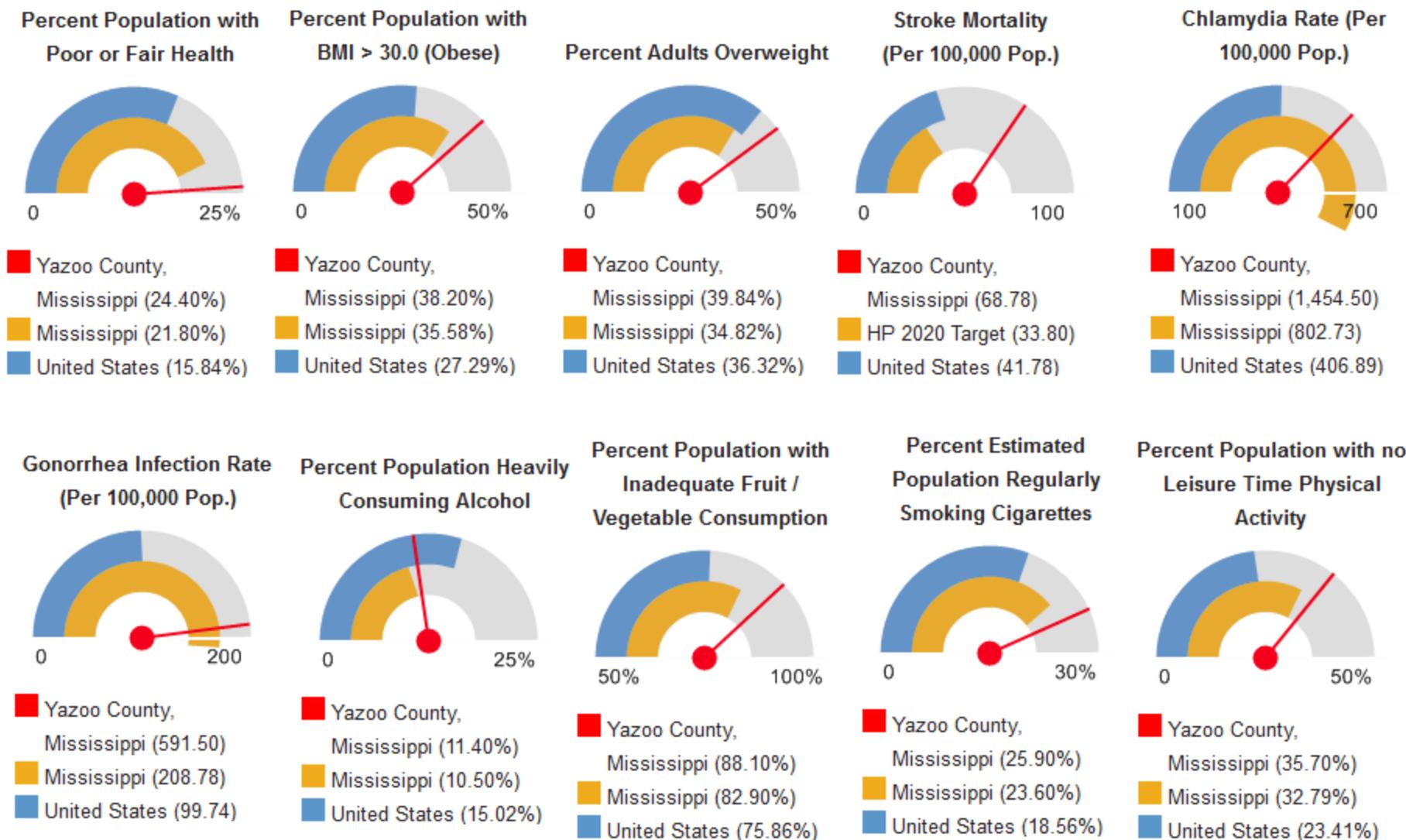
HIV Prevalence Rate



■ Yazoo County, Mississippi (451.10)  
 ■ Mississippi (333.60)  
 ■ United States (308.88)

# Health Needs of the Community - Summary

## Focus: Lifestyle Factors



# Group Activities

1. How clearly do you think the graphs, tables, and maps present the actual status of community health in your community and why?
2. What community resources do you know about that can assist King's Daughter Hospital in addressing the health issues discussed in this section?
3. Identify 3 key findings and recommendations related to your section and prioritize based on the importance or significance to Yazoo County residents.